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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,327	12/04/2001	Andre Colens	COL 207	6990

7590 06/17/2003
Horst M Kasper
13 Forest Drive
Warren, NJ 07059

EXAMINER

PETRAVICK, MEREDITH C

ART UNIT	PAPER NUMBER
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3671

DATE MAILED: 06/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/009,327

Applicant(s)

COLENS, ANDRE

Examiner

Meredith C Petravick

Art Unit

3671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 April 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12-17,20,22 and 23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12-17,20,22 and 23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 April 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Objections

1. Claim 17 is objected to because of the following informalities: Claims 17 states that the lawn mower is linked to the chassis via the suspension system. However, the chassis is part of the lawn mower. This claim is unclear. It is assumed that the cutting attachment should be linked to the chassis by a suspension system. Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 12-17, 20 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Colens 6,321,515 in view of EP 324322 (Elia), cited by applicant.

Colens discloses a robotic lawn mower with a chassis (1) and a cutting attachment (3). The cutting attachment includes a motor (Column 2, lines 59-60). Colens states, "The cutting heads can be of the type described in the patent application PCT WO 96/242431." PCT WO 96/242431 discloses a cutting head with a cutting disk (4) on a shaft (3). The cutting disk has blades (5) mounted on the outer edges. However, Colens fails to disclose providing a bottom plate with extensions for guarding the blade against foreign objects.

Like Colens, Elia discloses a device for cutting vegetation that includes a cutting attachment. Unlike Colens, Elia discloses a bottom guard plate under the cutting disk. The

Art Unit: 3671

bottom guard plate (6) is connected to a pin (15) and bearings (167) between the disk and plate. The guard plate includes coplanar extensions (between recesses 7) that extend out beyond the cutting blade (Column 2, lines 43-44). The extensions keep foreign objects away from the blade. Elia states, "The protective disc 6 prevents the blade 3 from contacting the body of the operator or obstacles directly whilst enabling material which can penetrate the recesses 7 to be cut. (Column 3, lines 20-24)"

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the cutting attachment of Colens with a guard of plate as in Elia, in order to prevent the cutting blade from impacting foreign obstacles.

In regards to claim 14, the extensions in Elia are prong with a rounded profile making hollows and tips.

In regards to claim 15, the spacing between the extensions is a design choice based on the type and size of the objected that is unwanted near the blade. The specification lacks criticality for the space between the extensions.

In regards to claim 16, Elia shows 11 extensions in Figure2.

In regards to claim 17, Colens show the cutting attachment connected to the mower by a suspension.

In regards to claims 10 and 23, the mower in Colens is a robotic mower for use on a golf course (Column 1, lines 22-25).

Art Unit: 3671

Response to Arguments

4. Applicant's arguments with respect to claim 12-17, 20 and 22-23 have been considered but are moot in view of the new ground(s) of rejection.

Applicant significantly amended independent claim 1 and added new claims 22-23. These amendments necessitated the new grounds of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

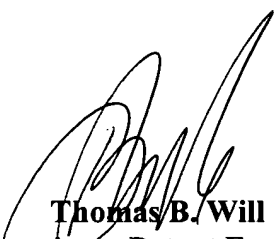
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meredith Petravick whose telephone number is 703-305-0047. The examiner can normally be reached on Monday-Thursday from 7:00 a.m. – 4:30 p.m.

Art Unit: 3671

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will, can be reached at 703-308-3870.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 703-305-1113. The fax number for this Group is 703-305-3597.



Thomas B. Will
Supervisory Patent Examiner
Group Art Unit 3671

MCP
June 11, 2003